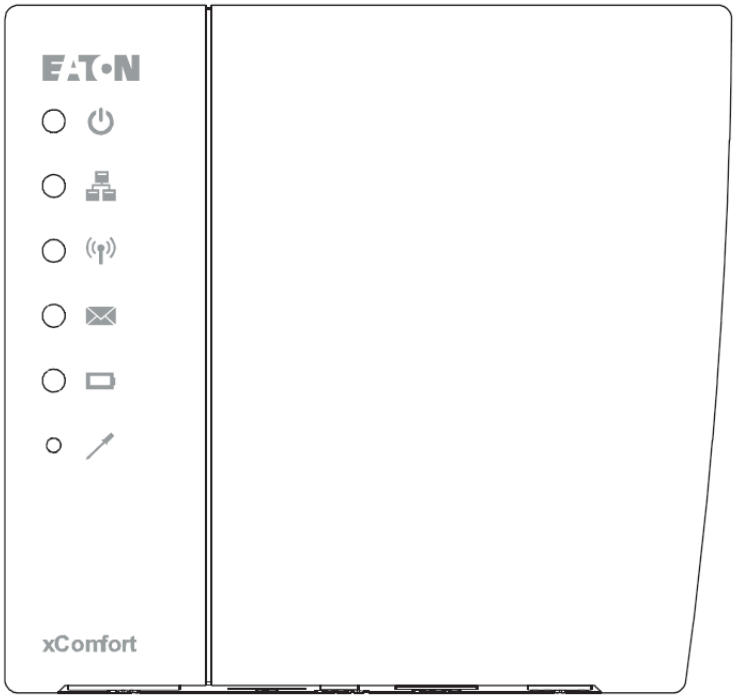
Smart Home Controller



Quick Installation Manual

Release 1.0.x version 1.0

Table of contents

1. Introduction

1.1. Safety instructions

This document contains important warnings and safety instructions which must be observed and followed by users. Failure to follow these warnings and safety instructions will put the fault-free operation of the Smart Home Controller at risk.

1.2. Intended use

xComfort products are designed for use in private homes and similar, fixed electrical installation systems. Applicable standards can be found in the CE declarations of conformity included in the mounting instructions supplied with each product.

1.3. About this document

This manual is intended for trained Installers only and describes the installation and configuration of the Smart Home Controller. Following this manual will ensure a successful installation

1.3.1. How to start

If you are new to the System, start with the chapter “How things work” in the Smart Home Controller Reference Manual to understand the Smart Home Controller concept and basics. Important is to know how this system works based on Zones and the way functionality is provided. This will directly affect the way the User can control his home.

If you are already familiar with the system, start directly with chapter 2 Installation and 3 Quick setup.

1.3.2. Troubleshooting

In case of problems check chapter 4 Troubleshooting.

1.3.3. Feedback

Please feel free to support us with any suggestions or feedback. Please use the feedback form in appendix A.

2. Installation

Follow the instructions in this chapter to install the Smart Home Controller and setup the xComfort network.

Installation steps:

- Smart Home Controller Installation
- MRF xComfort network Installation

2.1. Smart Home Controller Installation

Find an appropriate location for the Smart Home Controller. This location must be dry and free of other electric equipment that could disturb the working of the Controller. Keep in mind that the SHC does have an internal antenna for the xComfort RF network.

ATTENTION! Find an appropriate location for the SHC. The SHC does have an internal antenna for the xComfort RF module. Avoid disturbance from other equipment like WiFi routers. Minimum distance > 0,5m.

Installation steps:

1. Use the mounting holes in the SHC to screw the SHC to the wall.
2. Connect the SHC to your home network using a network cable.
3. Connect the power adapter to the SHC and switch on the power.

2.2. MRF xComfort Network Installation

Use the MRF xComfort Network Configuration Tool to create and setup the xComfort Network and create a Datapoint file so that the SHC recognizes all the xComfort Devices in the network.

ATTENTION! Use MRF tool version or higher: Eaton RF-System V2.19.

Installation steps:

1. Make a plan of all the functionality in Zones needed. ☐
2. Open the MRF Tool and create the MRF project.
3. Scan the network for xComfort Devices.
4. Configure the Device Settings if needed.
   Checklist:
   - ☐ Door (Switch) Actuator: Function: Off / On with switch off delay.
   - ☐ Shutter Actuator: Runtime.
   - ☐ Dimming Actuator: Dimming time, Dimming limits.
   - ☐ Binary Inputs: Mode 2, Cyclic sending.
   - ☐ Analog Inputs: 0 – 10V, Cyclic sending.

- ☐ Temperature Sensors: Send Temperature value, Cyclic sending. By default the Climate Function expects within every hour a temperature value. Set cyclic sending value to 55 minutes.

5. Connect all xComfort Devices to the Smart Home Controller. See Figure 1: MRF Project example.

⚠ **ATTENTION! To maintain the correct status of the Actuators it is important to connect all xComfort Actuators directly to the Smart Home Controller or an ECI. Find detailed information in the Smart Home Controller Reference Manual.**

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6. Specify a clear name for each Device.
7. Scan reception quality of all devices. Calculate and check all connections.
8. Load the configuration into the devices.
9. Create datapoint-file for the SHC and select Transmission: download by RF.
10. Save project.

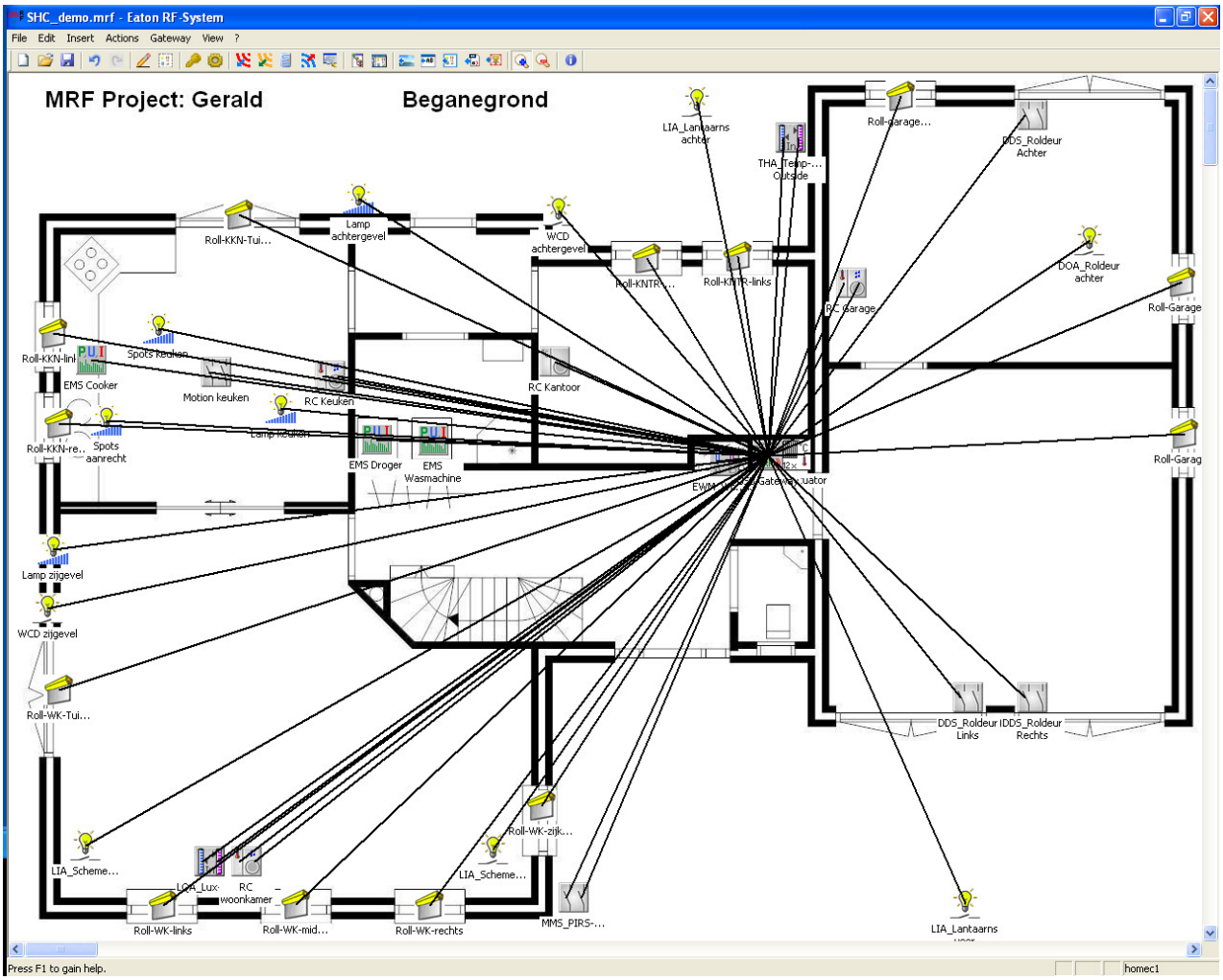


Figure 1: MRF Project example

3. Quick setup

Follow the instructions in this chapter to do a quick setup of the Smart Home Controller with a basic configuration. Find additional information and configurations in the Smart Home Controller Reference Manual.

Setup steps:

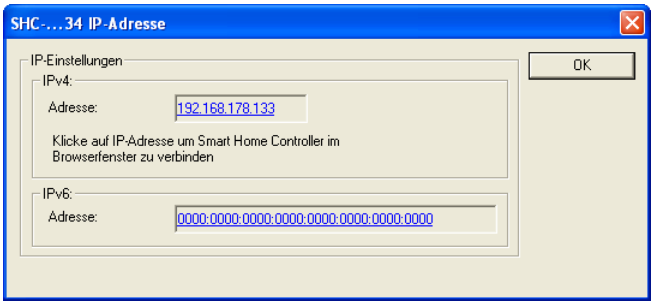
- ☐ Connect to the SHC Web Admin Console
- ☐ Import Data Points
- ☐ Adjust available Devices
- ☐ Create Users
- ☐ Set Time Zone
- ☐ Activate the Smart Home Controller
- ☐ Create Zones and assign available Devices
- ☐ Enable and setup needed Functions
- ☐ Download and connect the App (IOS)
- ☐ IOS App Function settings

3.1. Connect to the Web Admin Console

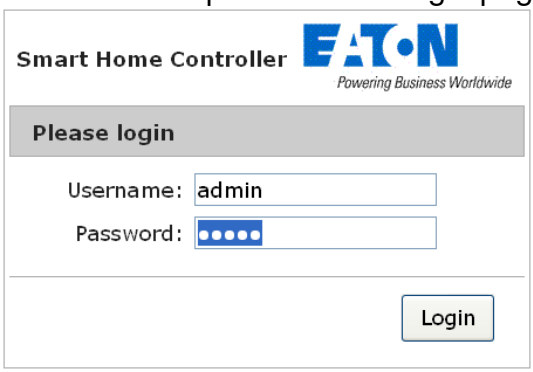
Connect to the Web Admin Console via MRF.

Steps:

1. Open MRF and load the project
2. Right click on the SHC and select: **`IP-Address`**
3. Click on the link: **`Address`**



4. The browser opens with the login page:



5. Login with:
   - Username: **admin**
   - Password: **admin**
6. The Web Admin Console is available

3.2. Import Data Points

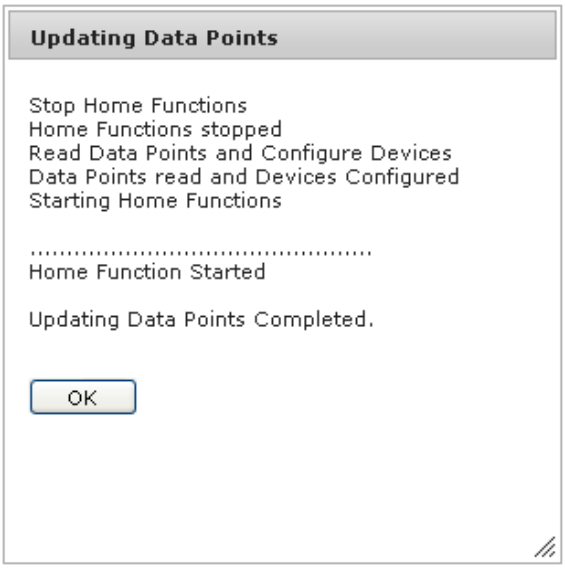
During the Installation the Data Points are already uploaded to the Smart Home Controller via MRF. If not, check chapter 2.2 MRF xComfort Network Installation.

Admin Console navigation: **1. System -> Datapoints**

Setup steps:

1. The default Internal RF Interface indicates the new datapoints:
   Import Data Points **DataPoint Lists need to be imported**
2. Click: **Import Data Points**
3. Please wait until the popup shows the process is ready:

ATTENTION! Do not interrupt this step.



4. Click: **OK**
5. Status indicates:
   Import Data Points **DataPoint Lists are Up-To-Date**

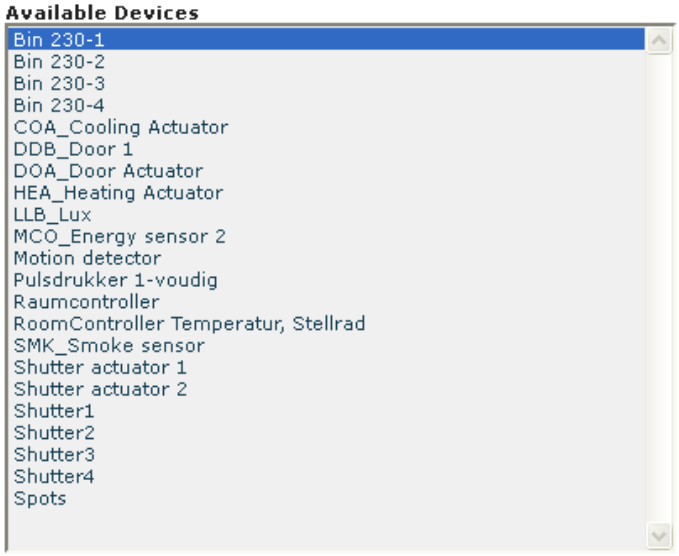
3.3. Adjust available Devices

Change the name and purpose of imported devices if needed. Specify always the unit and ratio for Impulse Counters and Analog Inputs.

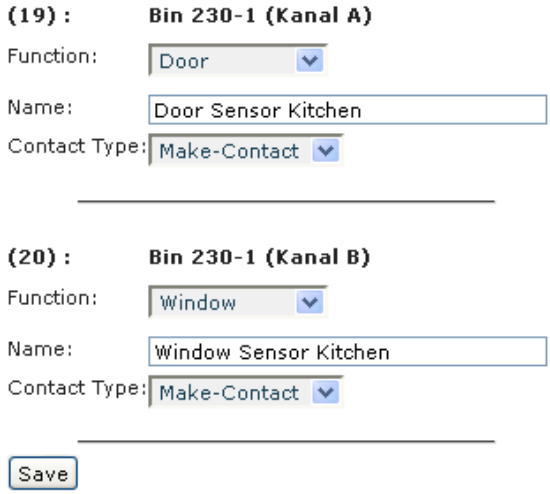
Web Admin Console navigation: **1. System -> Devices**

Steps:

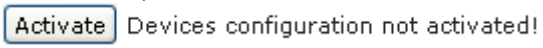
1. Select one Device of the available Devices on the left. Example:



2. Change the Device parameters on the right. Example:



3. Click: **Save**
4. Repeat previous steps for each Device
5. If finished, Click:



6. Please wait until the popup shows the process is ready:

ATTENTION! Do not interrupt this step.

7. Click: **OK**

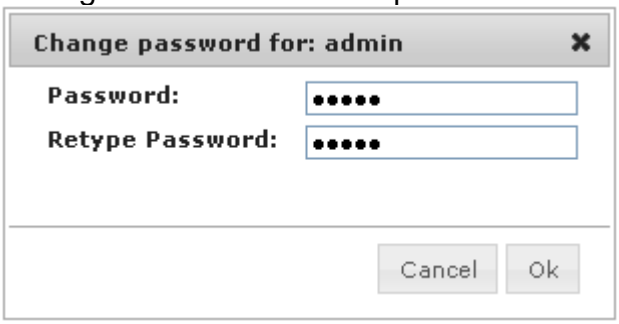
3.4. Create Users

Web Admin Console navigation: **1. System -> Users**

First: Change always the default admin password!

Steps to change the admin password:

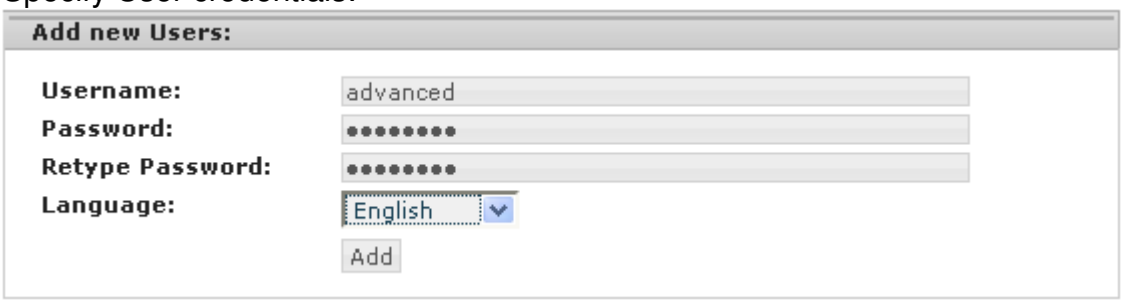
1. Click for User admin the Change Password Icon: 
2. Change and remember the password:



3. Click: **Ok**
4. Change the language if needed (Used for the Admin Console)

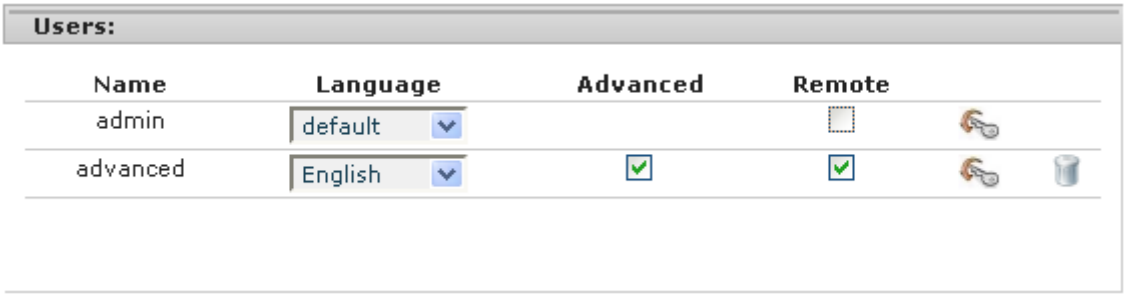
Add at least one Advanced User:

1. Specify User credentials:



2. Click: **Add**

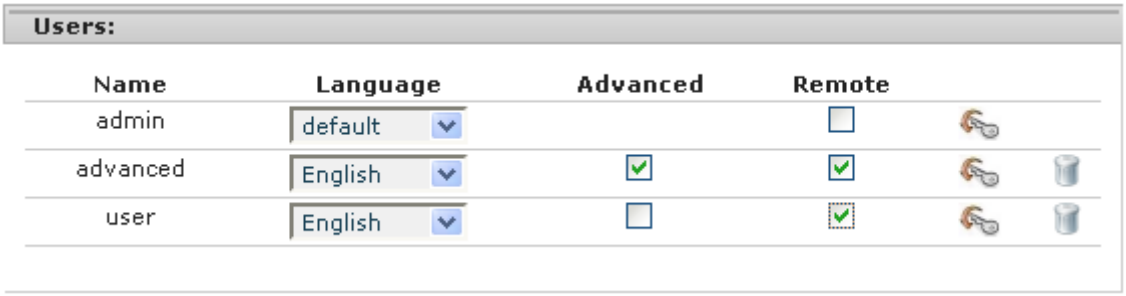
3. The new User is shown in the list of Users
   Check options: **`Advanced`** and: **`Remote`**



Add at least one normal User to control the system:

1. Specify User credentials:

2. Click: **`Add`**
3. The new User is shown in the list of Users
   If needed check option: **`Remote`**

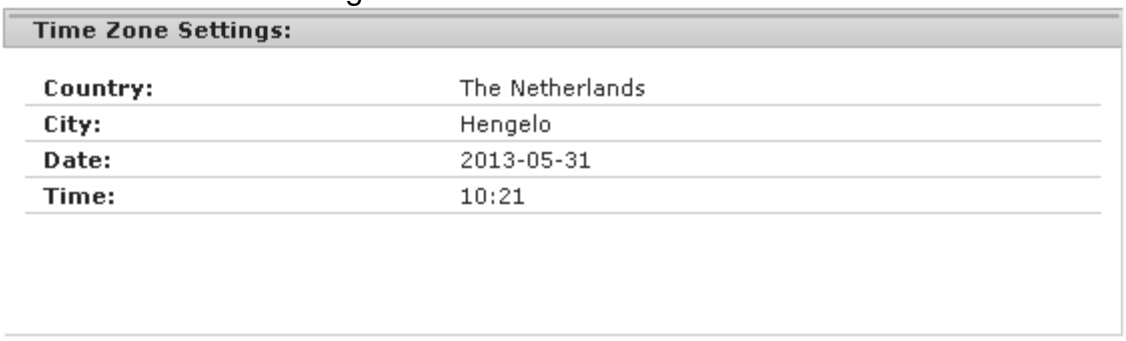


3.5. Set Time Zone

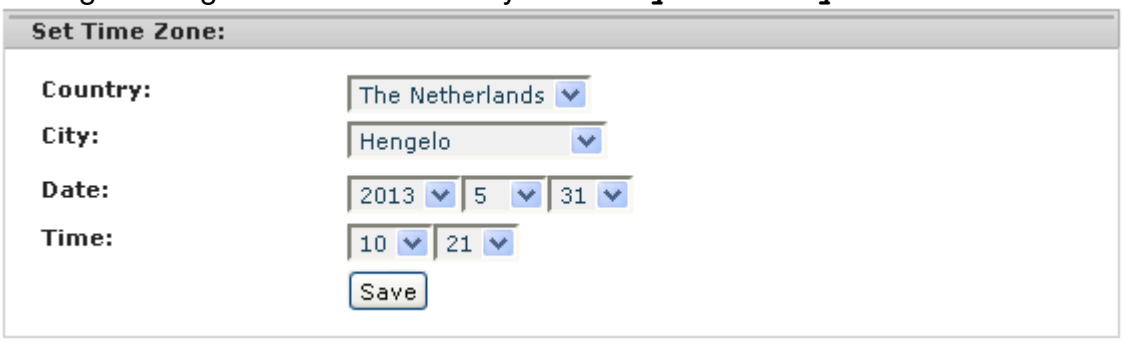
Web Admin Console navigation: **`1. System -> Time Zone`**

Steps:

1. Check Time Zone Settings:



2. Change settings if needed. Normally: **`Country`** and: **`City`**



3. Click: **`Save`**

3.6. Activate the Smart Home Controller

Activate the SHC for remote access and new software updates.

Admin Console navigation: **`1. System -> Remote Access`**

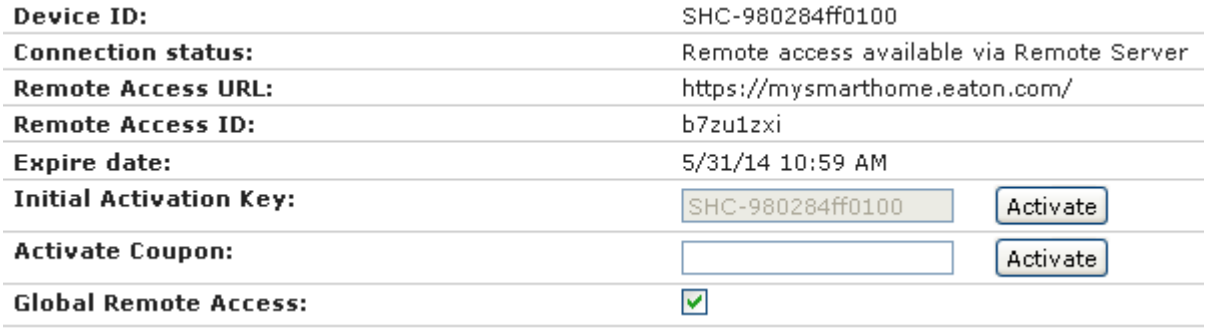
Steps:

1. Check if there is Internet Access:

2. Click: **`Activate:`**

3. Read and Accept the Terms And Conditions: **`Accept`**
4. Please wait until the popup disappears:

5. Enable: **`Global Remote Access`**
6. Refresh the page to check the connection status:



7. Please make a note of the received Remote Access ID to connect remotely

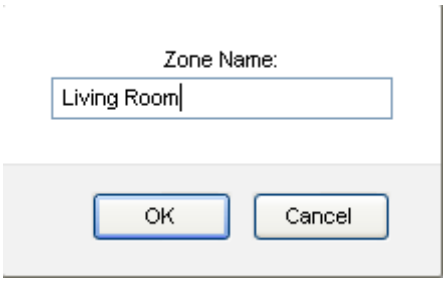
3.7. Create Zones and assign available Devices

As defined by the Customer create the Zones and add the Devices to these Zones. Create general Zones if needed.

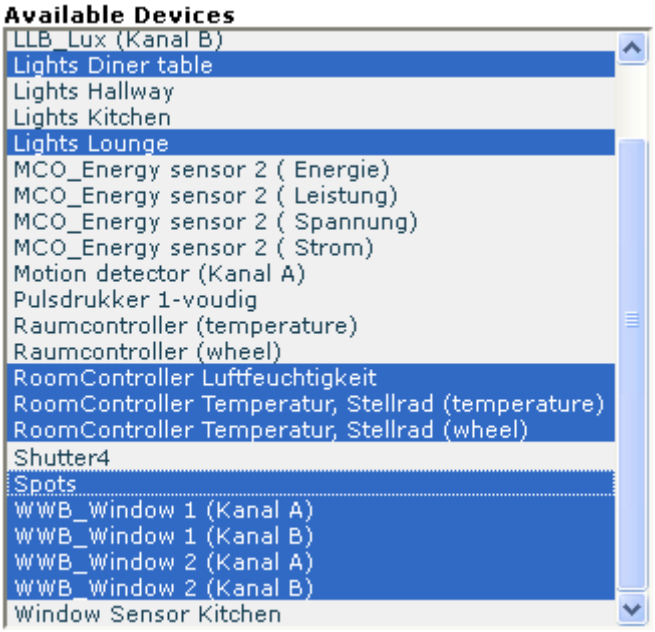
Web Admin Console navigation: **2. Zones**

Steps:

1. Click: **New**
2. Define a Zone name:

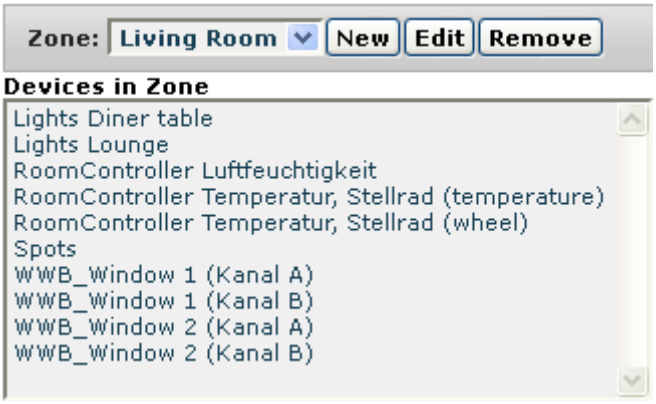


3. Click: **OK**
4. Select one or more Available Devices on the right side (Hold shift or ctrl):



5. Click to add the selected Devices to the Zone:

6. Added Devices are shown in the left screen:



7. Repeat all steps for each Zone

3.8. Enable and setup needed Functions

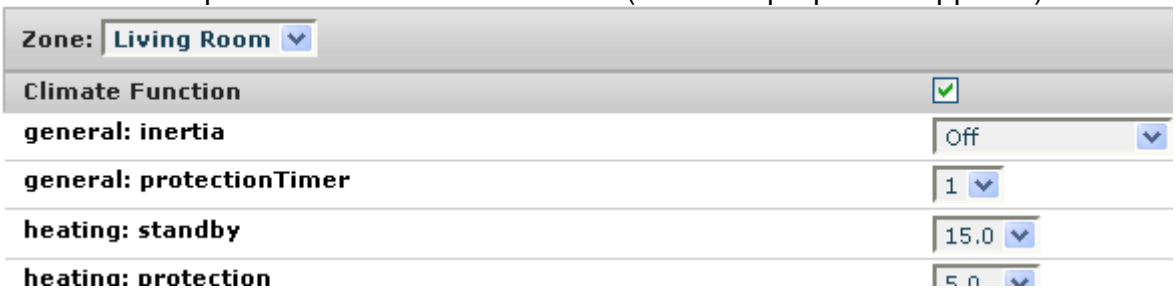
Enable the Functions required by the Customer in each Zone.

Web Admin Console navigation: `3. Functions`

Steps:

1. Select the Zone (Per default the Functions are disabled):

2. Enable the required Functions for this Zone (Function properties appears):



3. Adjust specific properties if needed
4. Repeat all steps for each Zone

3.9. Download and connect the App (IOS)

This example is based on the iPhone.

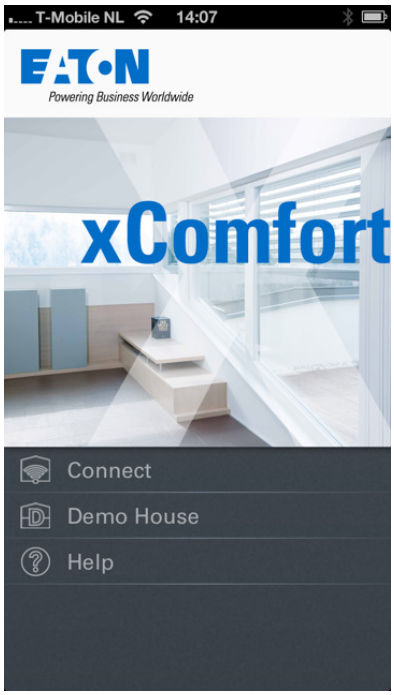
Figure 2: Download App

Open the App Store:

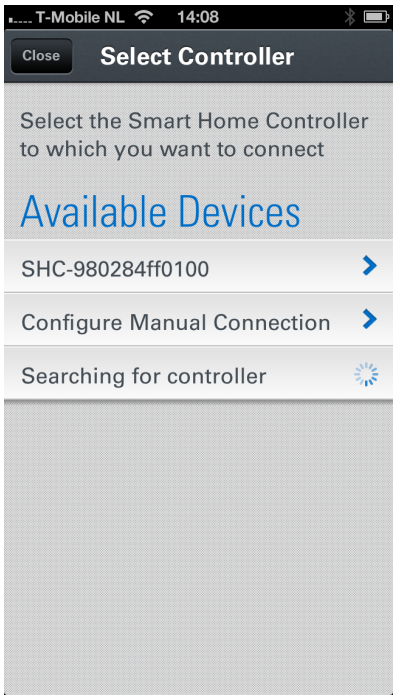
Search for: **`Eaton`**

Install and open the App

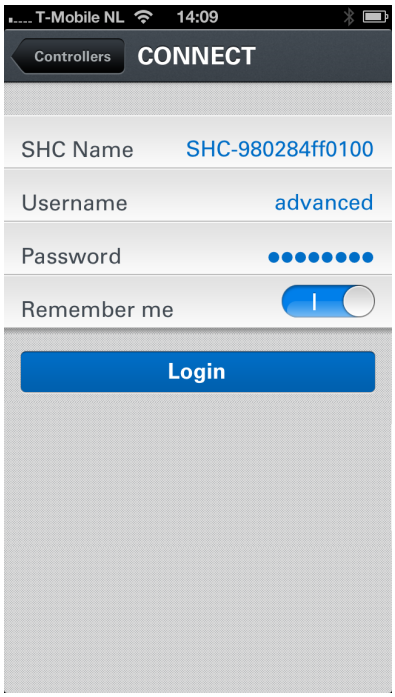
Figure 3: Connect to Smart Home Controller



Click: **`Connect`**



Select your controller

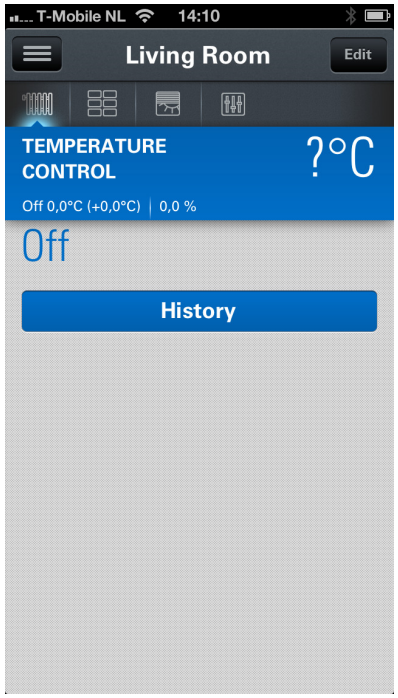


Login as advanced User

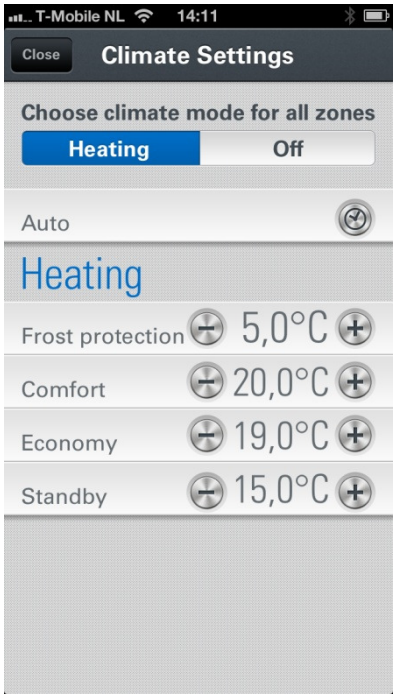
3.10. IOS App: Start the Temperature Control

Select the Climate Function: 

Figure 4: Start the Temperature Control

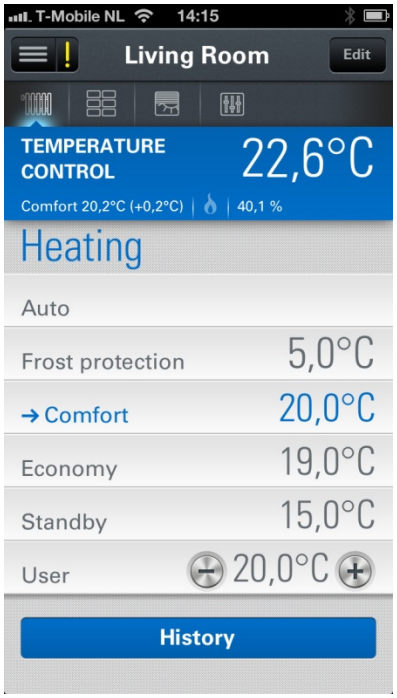


Click: **`Edit`**



Select: **`Heating`**

And: **`Close`**



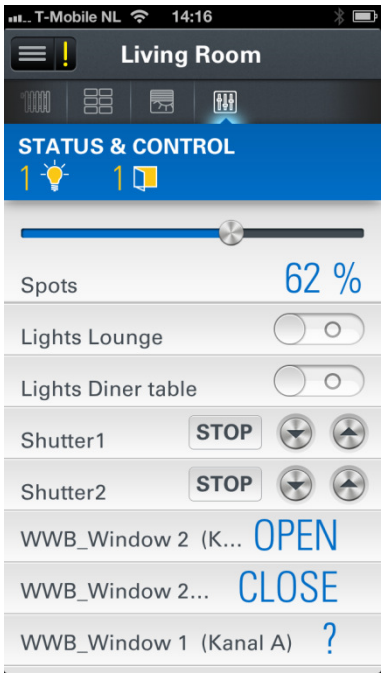
Select a predefined mode

The question mark indicates that no temperature value has been received yet. For additional information see the Smart Home Controller Reference Guide. Start the Temperature Control in every Zone with a Climate Function via the “edit” button.

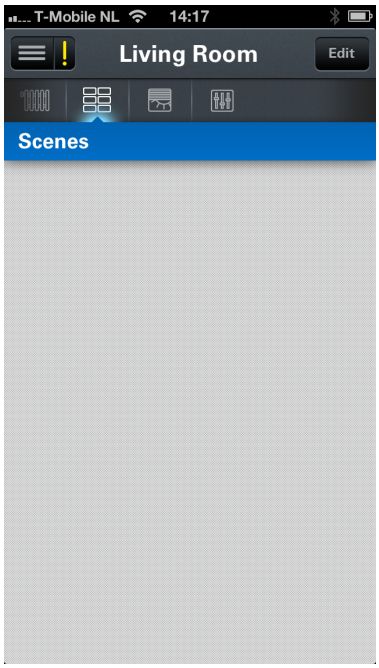
3.11. IOS App: Create Light Scenes

To create a Light Scene, select the Status & Control Function to set the preferred light settings.

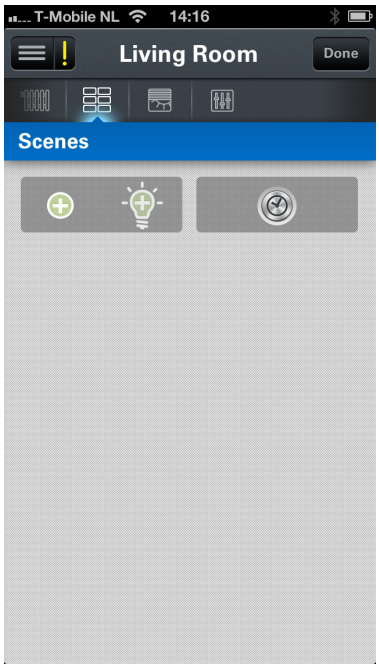
Figure 5: Create a Light Scene 1



Select Status & Control
Set preferred Lights

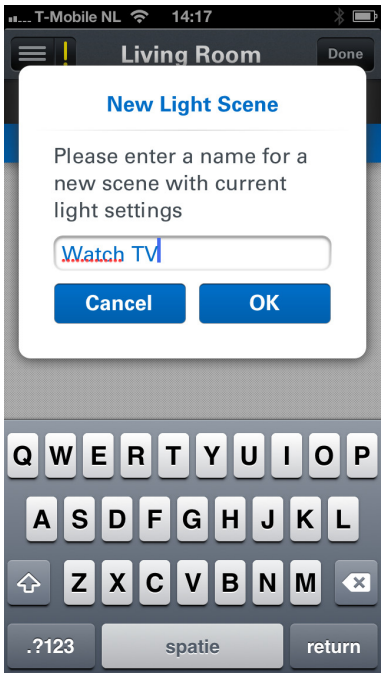


Select Scene Function
And click: **Edit**

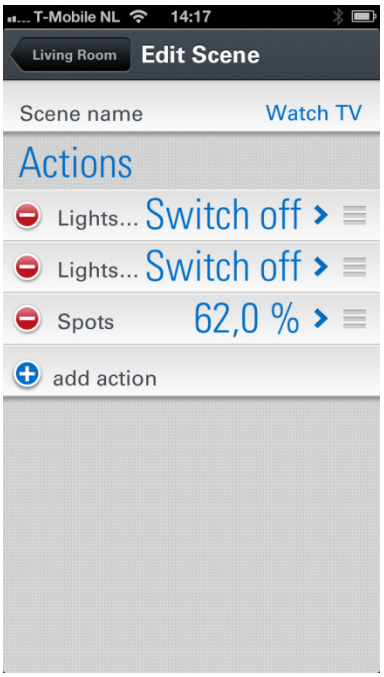


Click: 

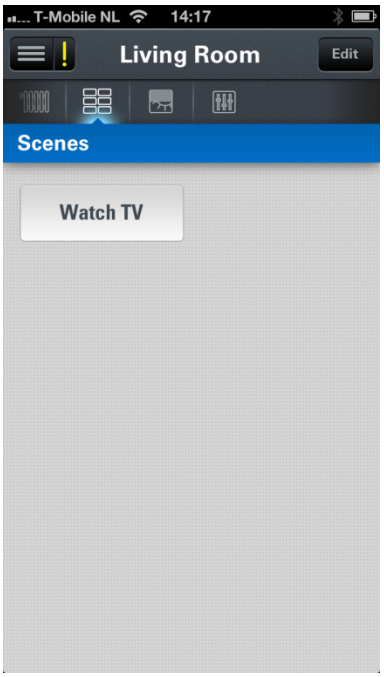
Figure 6: Create a Light Scene 2



Define a Scene name
And click: **OK**



Check light settings
And return to Zone



Button created

4. Troubleshooting

Find in this chapter information and instructions to solve problems. Consult also the latest FAQ to find answers to questions.

4.1. LED Indicators on the Smart Home Controller Box

Power LED:

- Green: Power ON, the System is operational.
- Orange: The System is booting.

Network Connection LED:

- Green: Remote Server Connection.
- Orange: Internet connection. The SHC is not activated yet.
- Red: No Internet connection. Check your internet connection via a PC or laptop.

RF Traffic LED:

- Blinking Green: RF traffic.

System Message LED:

- Green: There are no new messages in the Mailbox.
- Yellow: New Warning Message in the Mailbox.
- Red: New Error Messages in the Mailbox.

Battery Status LED

- Green: All batteries are OK.
- Yellow: At least one battery is weak. Consider to replace batteries.
- Red: At least one battery one battery is very weak or empty. Replace batteries.

4.2. How to restore the default admin password

This symbol indicates the recovery button on the Smart Home Controller Box. Use a small pin to access this button.

Press the button on the Smart Home Controller for 15 seconds (power LED flashes green and will finally change to orange), system will reboot. Wait until the LED is green. Also the network settings will be set to DHCP.

4.3. How to restore the SHC network settings

This symbol indicates the recovery button on the Smart Home Controller Box. Use a small pin to access this button.

Press the button on the Smart Home Controller for 15 seconds (power LED flashes green and will finally change to orange), system will reboot. Wait until the LED is green. Also the admin password is set to default.

4.4. Ways to recover the SHC

The Smart Home Controller can be recovered in the following ways:

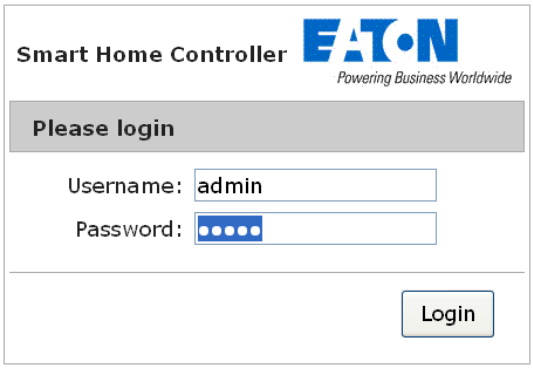
- Power Off the System by removing the power plug for 1 minute and reconnect.
- Reboot the Smart Home Controller via the Web Admin Console.
- Set the Smart Home Controller back to factory settings. Reconfigure everything.
- Reset internal RF Module password and datapoint list. Use MRF to reprogram.

Admin Console navigation: **`1. System -> Firmware`**

4.5. Ways to connect to the SHC Web Admin Console

4.5.1. Directly via a browser and IP address

1. Open a browser
2. Open the login page: **`http://<SHC IP address>`**:



3. Login with:
   - Username: **`admin`**
   - Password: **`admin`**
4. The Web Admin Console is available

4.5.2. Via Bonjour (MAC)

1. Open: Safari
2. Click the Bookmark icon: 
3. Select Bonjour: 
4. Double click Bookmark: Smart Home Controller
5. The browser opens with the login page

4.5.3. Via UPnP (Windows)

1. Open My Network Places: 
2. Double click link: Smart Home Controller
3. The browser opens with the login page

4.5.4. Via MRF

1. Open MRF and right-click on the SHC: 

2. Select Check IP-Address
3. Click on the Address
4. The browser opens with the login page

4.6. Default admin password?

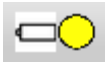
The default password for admin is admin. Please change this password directly after the setup.

4.7. Diagnostics Status bar: Indicators and colors

In the top bar the following status indicators are shown:

 Network status:

- Green: Connected to the Remote Server
- Yellow: Connected to Internet
- Red: No Internet connection

 Battery status battery powered Devices:

- Green: All batteries are good
- Yellow: One or more batteries are weak
- Red: One or more batteries are empty

 RF Interface status:

- Green: All configured Interfaces are up
- Red: One or more Interfaces are down

 New Messages available:

- Green: No new messages after the last check
- Yellow: New Warning messages
- Red: New Error messages

Appendix A Feedback form

Use this feedback form below to send us your comments. We read all feedback carefully, but please note that we cannot respond to the comments you submit.

Please send your feedback to your local sales contact.

Name: ……..

Email Address: ……..

Used Smartphone, Tablet and browsers:

☐ iPhone App iOS Version:……

☐ iPad App iOS Version:……

☐ Andoid Phone App Android Version:……

☐ Andoid Pad App Android Version:……

☐ Safari Browser Version:……

☐ Google Chrome Browser Version:……

☐ Mozilla Firefox Browser Version:……

☐ Internet Explorer Browser Version:……

☐ Other: ……..

Feedback Type:

☐ Bug Report

☐ Design/Ease of Use

☐ Connectivity/Remote Server

☐ Language-Specific Bug/Issue

☐ Missing/New Functionality

☐ Configurability

Small description of the installation and building:

Comments:
